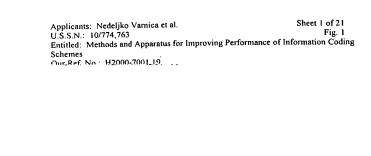
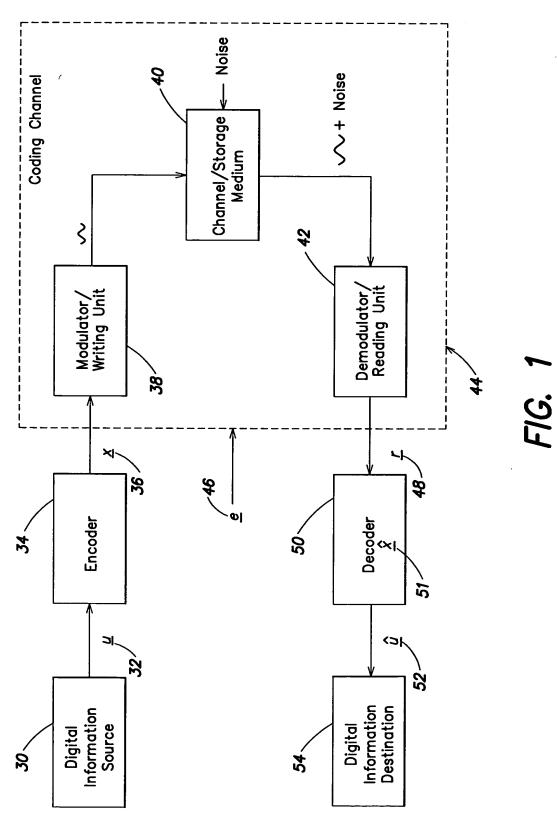
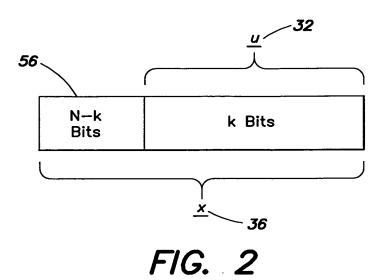
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Figs. 2 & 3
Entitled: Methods and Apparatus for Improving Performance of Information Coding Schemes
Our. Ref._No... H2000-7001 19



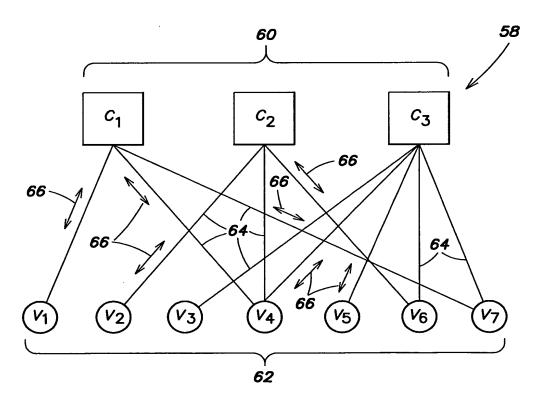


FIG. 3

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Fig. 4
Entitled: Methods and Apparatus for Improving Performance of Information Coding Schemes
Our Ref. No.: H2000-7001,19

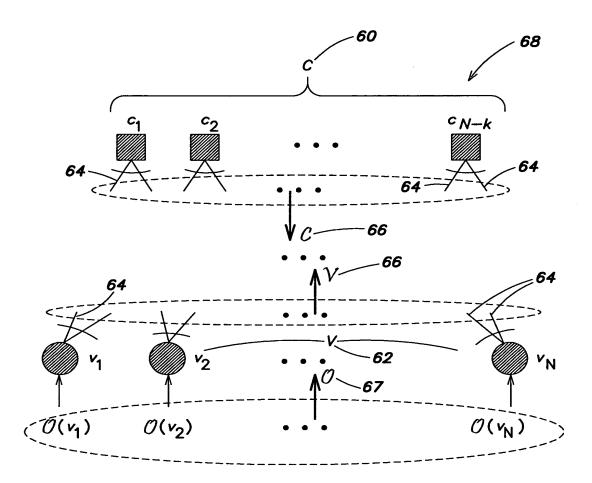
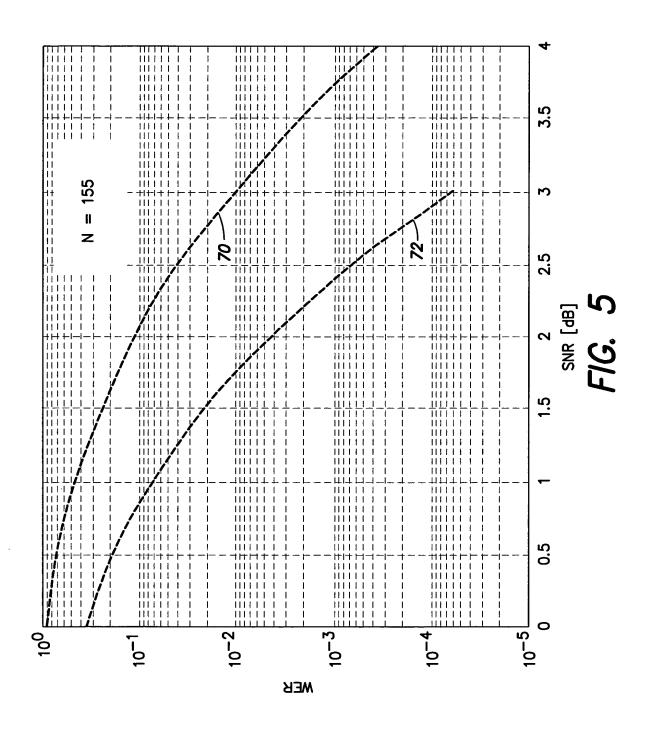


FIG. 4

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Sheet 4 of 21 Fig. 5

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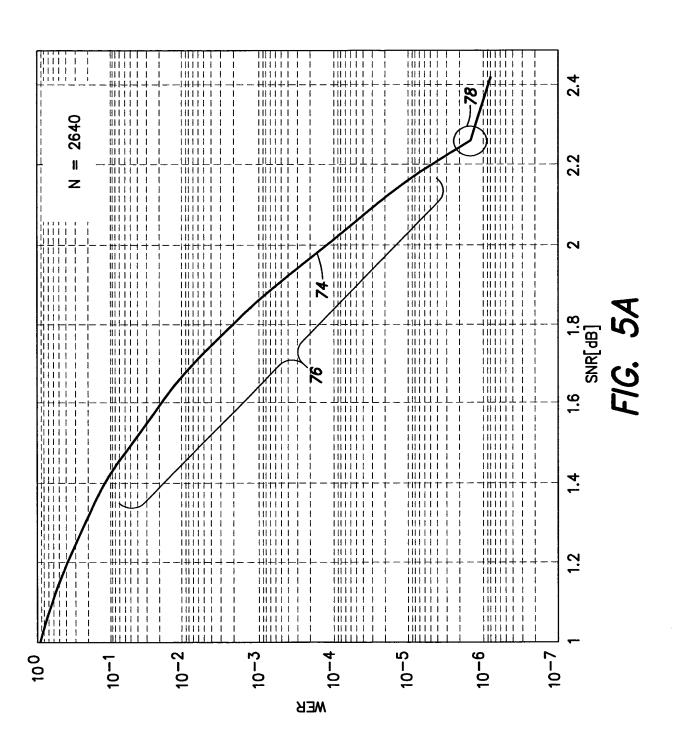


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Sheet 5 of 21 Fig. 5A

Entitled: Methods and Apparatus for Improving Performance of Information Coding

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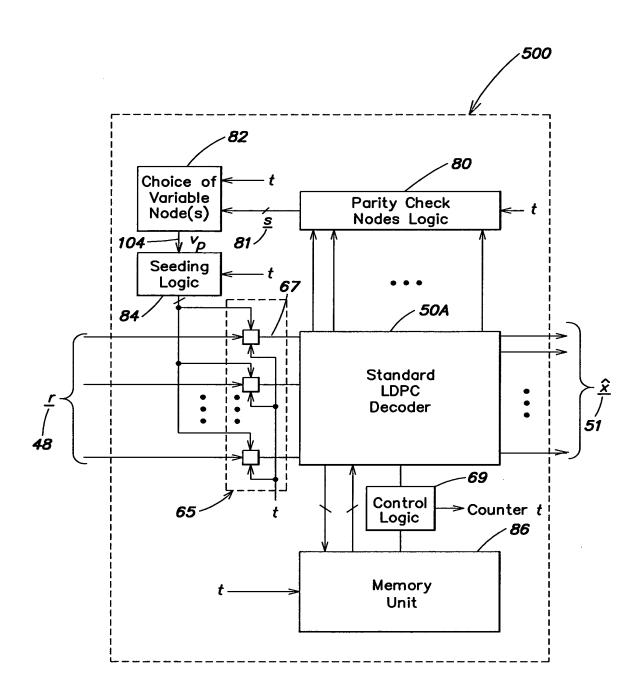


FIG. 6

Schemes

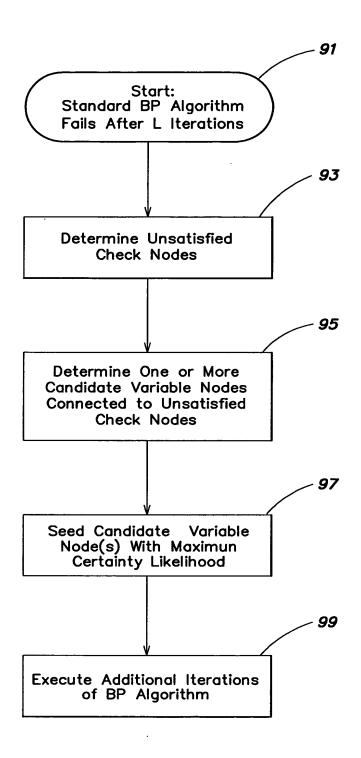


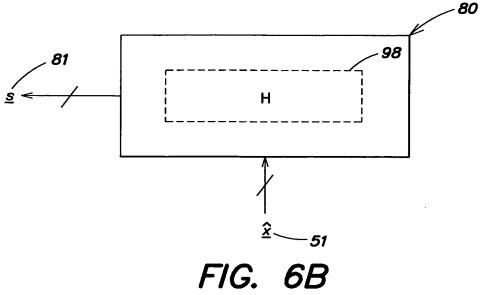
FIG. 6A

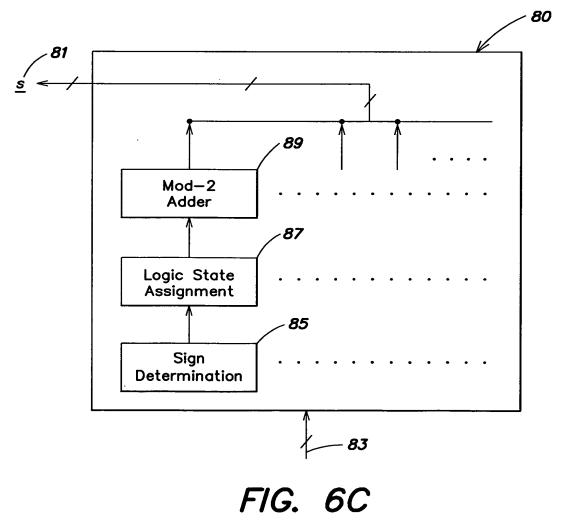
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Figs. 6B & 6C

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Our Ref. No.: H2000-7001.19

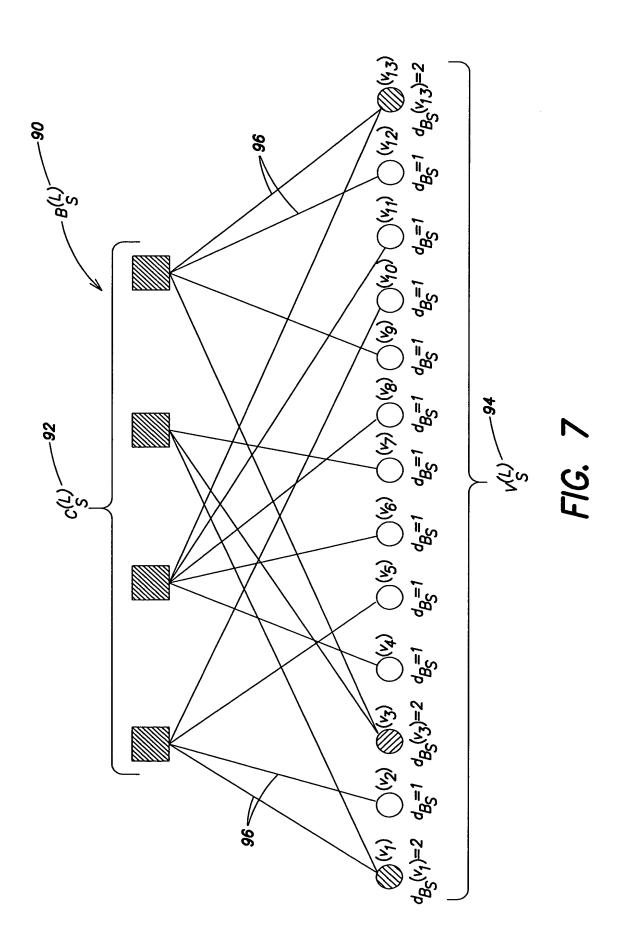


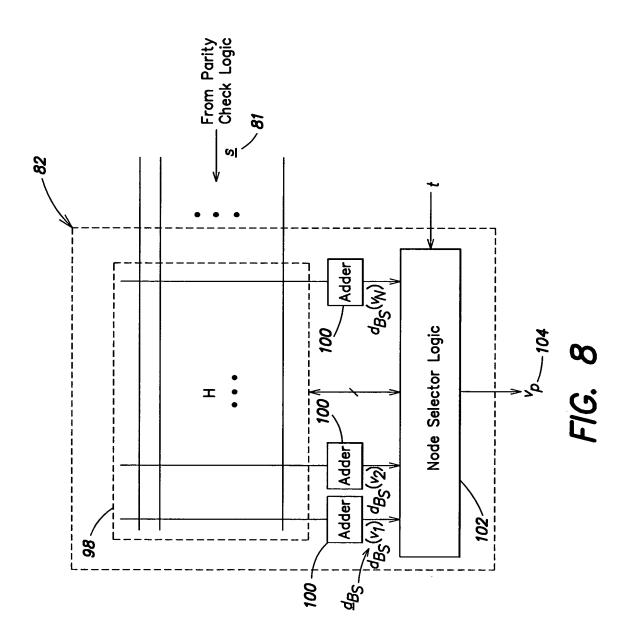


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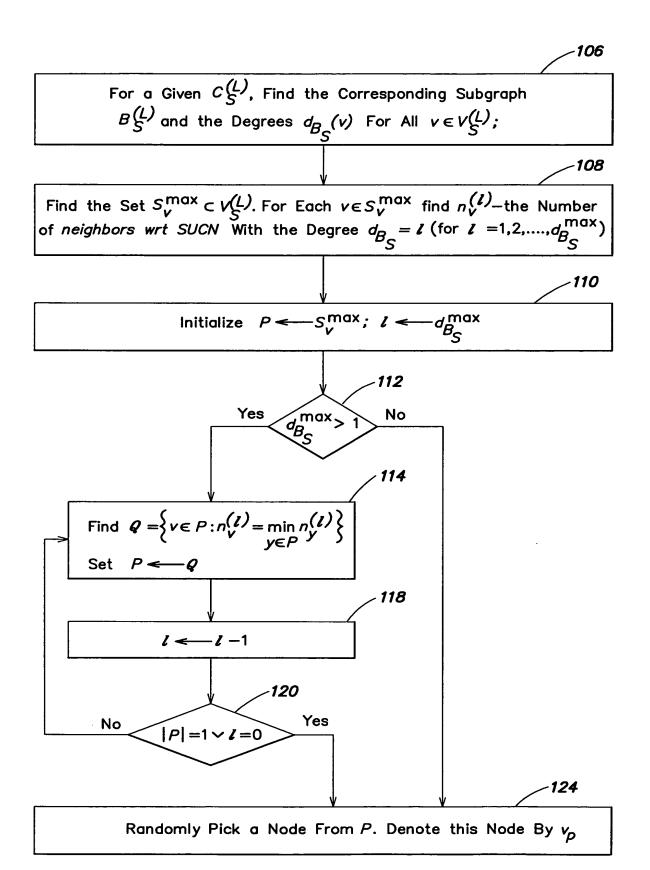
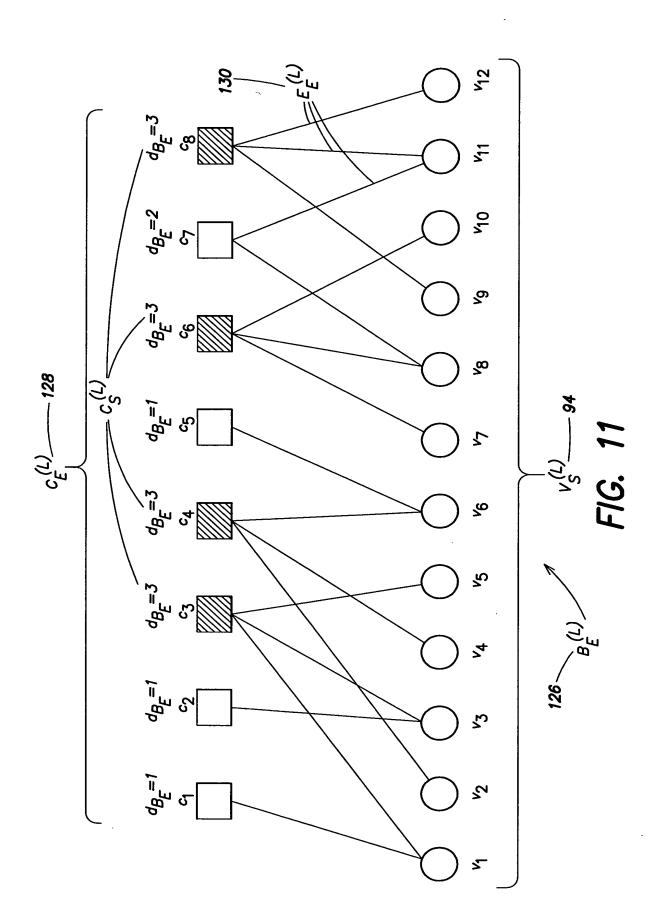


FIG. 9

Applicants: Nedeljko Varnica et al. Sheet 12 of 21 U.S.S.N.: 10/774,763 Fig. 10 Entitled: Methods and Apparatus for Improving Performance of Information Coding Schemes Our Ref. No.: H2000-7001.19

106 For a Given $C_S^{(L)}$, Find the Corresponding Subgraph $B_{S}^{(L)}$ and the Degrees $d_{B_{S}}(v)$ For All $v \in V_{S}^{(L)}$; -108 Find the Set $S_v^{\text{max}} \subset V_S^{(L)}$. For Each $v \in S_v^{\text{max}}$ find $n_v^{(l)}$ —the Number of neighbors wrt SUCN With the Degree $d_{B_S} = l$ (for $l = 1, 2, ..., d_{B_S}^{max}$) 110 Initialize $P \leftarrow S_v^{\text{max}}$; $l \leftarrow$ -d_Bmax 112 Yes $d_{\mathcal{B}_{\mathcal{S}}}^{\mathsf{max}} >$ No 114 122 Find the Set $P \subset V_S^{(L)}$ of Variable Nodes in $B_E^{(L)}$ That Are Connected to Check Nodes Which Have Find $Q = \left\{ v \in P : n_V^{(l)} = \min_{y \in P} n_y^{(l)} \right\}$ Set Degree $d_{B_E} = 2$. If There Are No Check Nodes With Degree $d_{B_E} = 2$ Set $P \leftarrow V_S^{(L)}$ 1 <-- 1 -1 120 Yes No $|P|=1 \lor l=0$ 124 Randomly Pick a Node From P. Denote this Node By v_D

FIG. 10



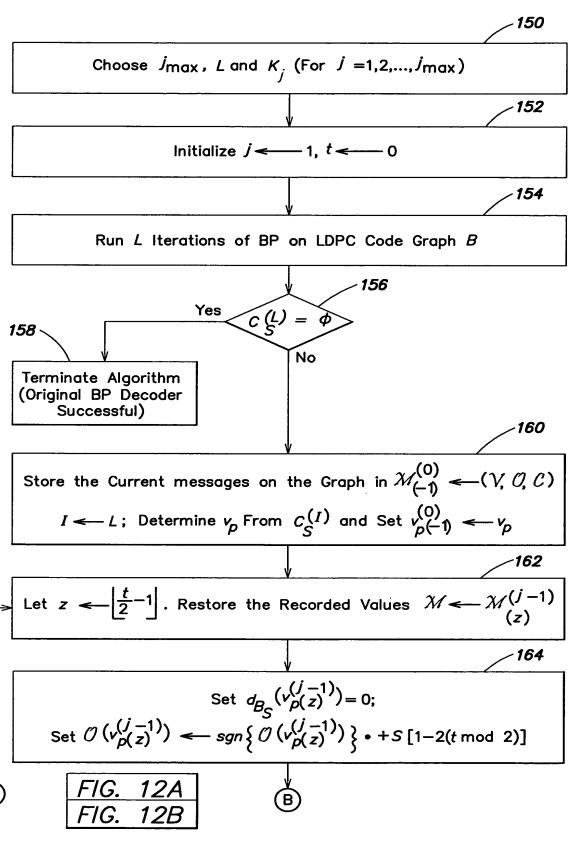


FIG. 12A

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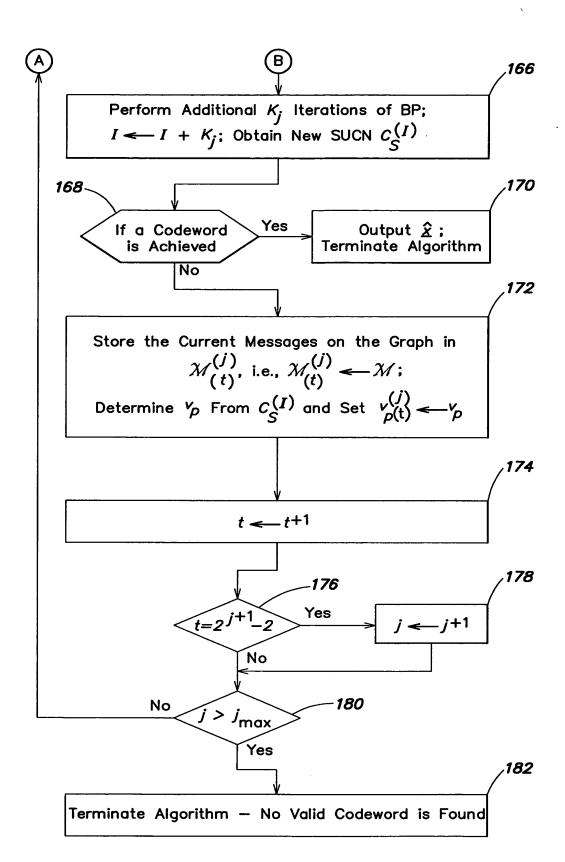
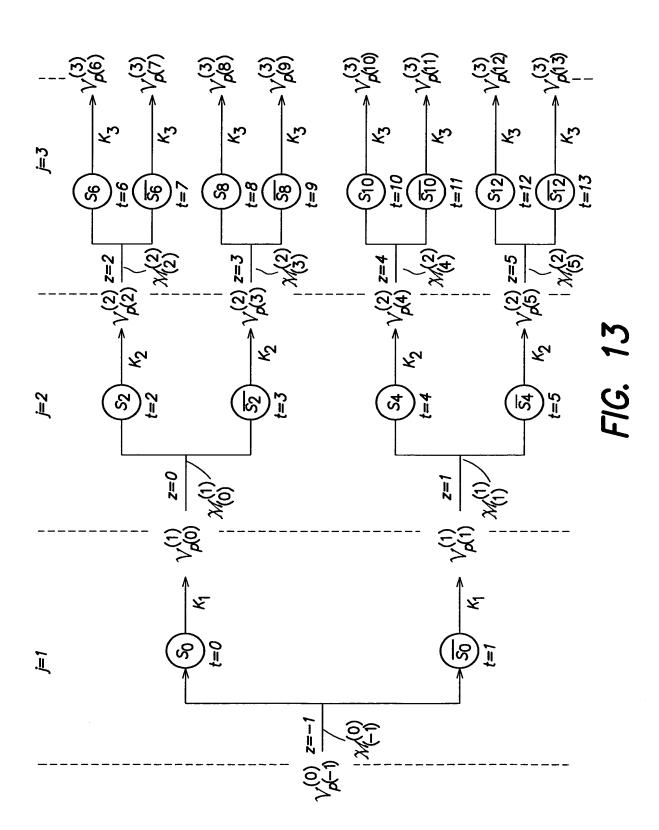
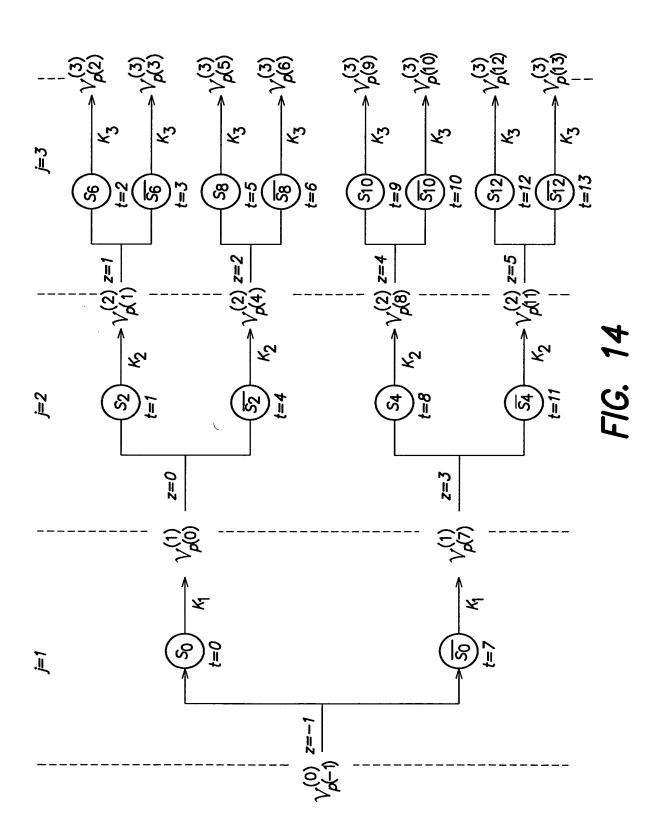


FIG. 12B

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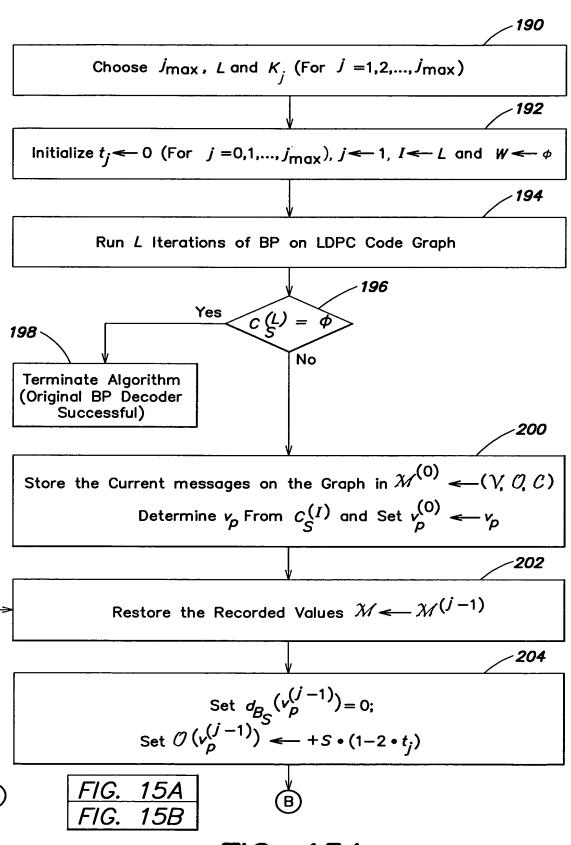


FIG. 15A

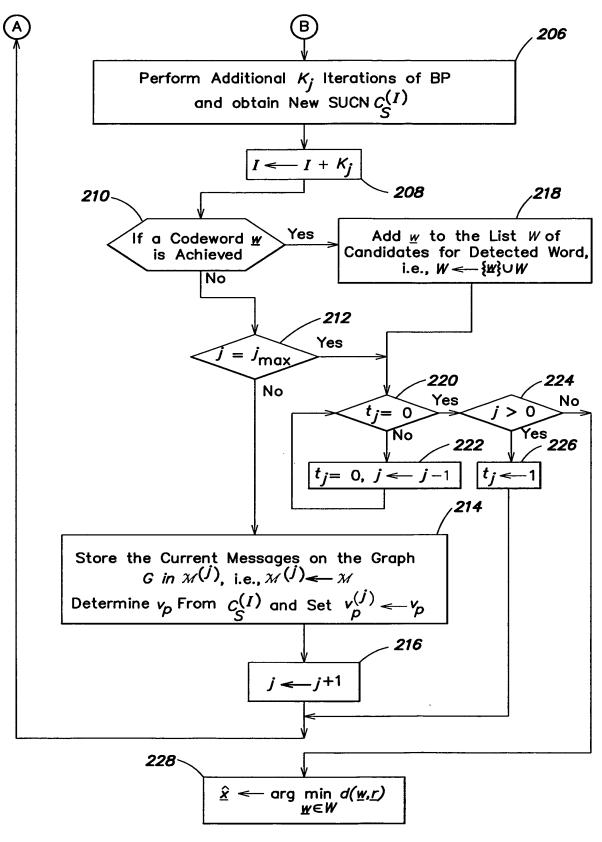
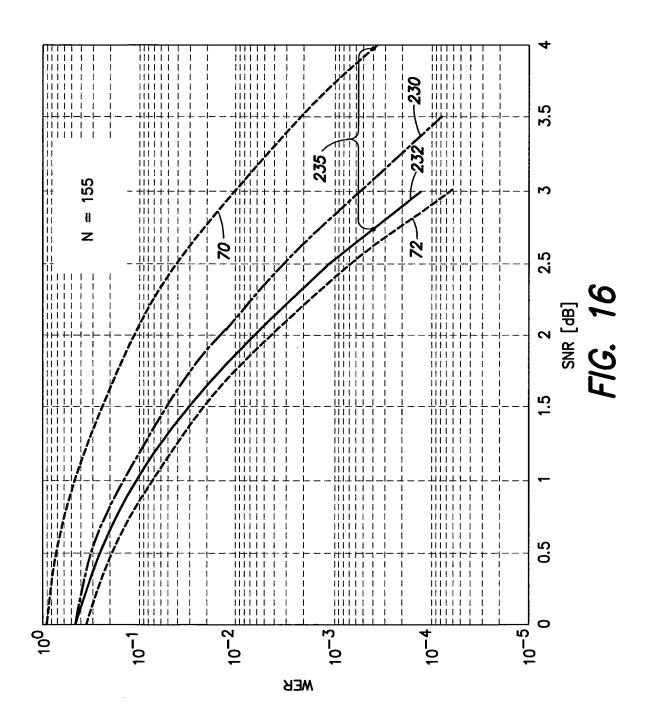


FIG. 15B



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Sheet 21 of 21 Fig. 17

U.S.S.N.: 10/774,763 Fig. 17
Entitled: Methods and Apparatus for Improving Performance of Information Coding

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